

A VERTICALLY-STACKED CO-PLANAR TRANSMISSION
LINE STRUCTURE FOR IC DESIGN

ABSTRACT OF THE DISCLOSURE

A vertically stacked coplanar transmission line structure for an IC (integrated circuit) is provided which has superior loss and reflection characteristics relative to conventional on-chip transmission line designs. A simple embodiment of the vertically stacked coplanar transmission line structure comprises a micro-strip pair of first and second vertically stacked coplanar conductors, each comprising a metal layer, a next metal layer down, and an intermediate connecting via layer in between the metal layer and the next metal layer down.